عنوان فارسی مقاله:
رویکرد تحلیلی برای پیش‌بینی حرکت کامل تاب دار تیرهای بتن مسلح با مصالح تقویت شده FRP

عنوان انگلیسی مقاله:
Analytical approach for predicting full torsional behavior of reinforced concrete beams strengthened with FRP materials

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
6. Conclusion

The full torsional behavior of FRP strengthened RC solid and hollow rectangular beams is predicted by a rational model developed in this paper, which is an extension of SMMT. The proposed model is capable of calculating the compressive and tensile strain of concrete, as well as the tensile strain in FRP and steel bars. The model accounts for several possible strengthening techniques, including CFRP and GFRP complete wrapping, spiral strips, complete U-jacketing along the beam, and U-jacketing strips. By validating the results obtained from the proposed model by experimentation, reasonable agreement of this model for predicting the torsional behavior of RC beams strengthened with FRP fabrics is shown.